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DATE MAILED: 12/10/2008

NOTICE OF ALLOWANCE AND FEE(S) DUE

22195 7590 12/10/2008 HUMAN GENOME SCIENCES INC. INTELLECTUAL PROPERTY DEPT. 14200 SHADY GROVE ROAD ROCKVILLE. MD 20850 EXAMINER

DUFFY, PATRICIA ANN

ART UNIT PAPER NUMBER

1645

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/602,727	06/25/2003	Craig A. Rosen	PF596P1N	1552			
TITLE OF INVENTION: ANTIBODIES AGAINST PROTECTIVE ANTIGEN							

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	03/10/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

indicated unless correct maintenance fee notifica	ed below or directed otl	ng the Patent, advance of herwise in Block 1, by (a) specifying a new o	orres	pondence address;	and/o	r (b) indicating a sep	arate "	FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of uddress)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
INTELLECTUA 14200 SHADY	NOME SCIENCES AL PROPERTY DE GROVE ROAD				Cer	tificate	e of Mailing or Trans s) Transmittal is bein ficient postage for fir ISSUE FEE address I) 273-2885, on the c	missio	n
ROCKVILLE, I	MD 20850								(Depositor's name)
									(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR			ATTO	RNEY DOCKET NO.	CON	NETRMATION NO.
10/602,727 TITLE OF INVENTION	06/25/2003 N: ANTIBODIES AGAIN	NST PROTECTIVE ANT	Craig A. Rosen IGEN				PF596P1N		1552
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	Т	DATE DUE
nonprovisional	NO	\$1510	\$0		\$0		\$1510		03/10/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	3					
DUFFY, PA	TRICIA ANN	I645	424-139100		_				
Change of correst Address form PTO/S "Fee Address" inc PTO/SB/47; Rev 03-1 Number is required 3. ASSIGNEE NAME A	AND RESIDENCE DATA dess an assignee is ident th in 37 CFR 3.11. Com	unge of Correspondence		single or a attor II be or typ he pa	rely, e firm (having as a gent) and the nam meys or agents. If printed. ec) atent. If an assign assignment.	membes of u no nan	p to p to p to get is 3 dentified below, the c	locume	nt has been filed for
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a. Applicant claim	ntus (from status indicate	us. See 37 CFR I.27.	11				ITTY status. Sec 37 C		
interest as shown by the	records of the United Sta	uired) will not be accepte ites Patent and Trademark	Office.	aan t	ас аррисайт, а геді	stered.	auorney or agent; or t	ic assi	guee or outer party in
Authorized Signature			Date						
Typed or printed name					Registration N				
This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22:	nation is required by 37 C titality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DO 313-1450.	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the e Chief Information O COMPLETED FORM	or r is est indiv Office IS TO	etain a benefit by t imated to take 12 i idual case. Any co r, U.S. Patent and D THIS ADDRESS	he pub minuter omment Trader S. SEN	lic which is to file (an is to complete, including its on the amount of tinark Office, U.S. Dep D TO: Commissioner	d by th ng gath me you artmen for Par	e USPTO to process) sering, preparing, and a require to complete it of Commerce, P.O. tents, P.O. Box 1450,

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14200 SHADY (ROCKVILLE, M			1645			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 400 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 400 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)			
10/602,727	ROSEN ET AL.			
Examiner	Art Unit			
Patricia A. Duffy	1645			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 10-28-08.
- 2. The allowed claim(s) is/are 1, 5-14, 17-25, 27-37, 41-46, 51, 52, 55-59, 61-67, 69, 70, 79-86 AND 97-104.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) \square All b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. T Examiner's Statement of Reasons for Allowance

/Patricia A. Duffy/

Primary Examiner, Art Unit 1645

9. ☐ Other

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark Hyman on November 21, 2008.

Claims 1, 5-14, 17-21, 33-37, 41-46, 51, 52, 55 are directed to an allowable product. Pursuant to the procedures set forth in MPEP § 821.04(B), claims 24, 25, 27-32, 56-104 were directed to the process of making or using an allowable product, previously withdrawn from consideration as a result of a restriction requirement, the methods are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Because all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement as set forth in the Office action mailed on 3-7-06 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional

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statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

The application has been amended as follows:

In the claims:

Claim 1. (amended) An isolated antibody or fragment thereof comprising the amino acid sequences of the VHCDR1, VHCDR2, VHCDR3, VKCDR1, VLCDR2, and VLCDR3 domains of the scFv of SEQ ID NO:53 the VHCDR1 domain (residues 26-35 of SEQ ID NO:53), the VHCDR2 domain (residues 50-66 of SEQ ID NO:53), the VHCDR3 domain (residues 99-106 of SEQ ID NO:53), the VLCDR1 domain (residues 156-168 of SEQ ID NO:3), the VLCDR2 domain (residues 184-190 of SEQ ID NO:53), and the VLCDR3 domain (residues 223-233 of SEQ ID NO:53), of the scFv of SEQ ID NO:53, wherein said antibody or fragment thereof specifically binds protective antiqen (PA).

Claim 27 (amended). The method of claim 22 wherein the antibody or fragment thereof is administered in combination with an anti-anthrax agent selected from the group consisting of:

(a) a soluble form of the ATR anthrax toxin receptor;

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(b) a soluble form of the GMG2 capillary morphogenesis protein 2 receptor;

(c) an anti-anthrax toxin receptor ATR antibody;

(d) an anti-<u>edema factor</u> EF antibody ; <u>and</u>

(e) an anti-lethal factor LF antibody [[;]]

(f) an anthrax vaccine; and

(g) a polyvalent form of the P1 peptide.

Claim 61 (amended). The method of claim 56 wherein the antibody or fragment thereof is administered in combination with an anti-anthrax agent selected from the group consisting of:

(a) a soluble form of the ATR anthrax toxin receptor;

(b) a soluble form of the CMG2 capillary morphogenesis protein 2 receptor;

(c) an anti-anthrax toxin receptor ATR antibody;

(d) an anti-<u>edema factor</u> EF antibody ; <u>and</u>

(e) an anti-lethal factor LF antibody [[;]]

(f) an anthrax vaccine; and

(g) a polyvalent form of the P1 peptide.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia A. Duffy whose telephone number is 571-272-0855. The examiner can normally be reached on M-Th 7:30 pm - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Mondesi can be reached on 571-272-0956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Patricia A. Duffy/ Primary Examiner, Art Unit 1645 Patricia A. Duffy Primary Examiner Art Unit 1645